Web Management Server

Reference Guide

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Introduction

Introducing Web Management and VLAN Configuration

This reference guide describes the use of a Web browser interface for IntraSwitch management as an alternative to local console management and Telnet remote management. Web management, like Telnet management, is in-band.

This guide also covers the configuration of custom VLANs, by means of configuration screens that can be accessed via the IntraSwitch Local Management Interface.

Web Browser Access to IntraSwitch Parameters

The "Web Browser Management" chapter explains how to access general information, port parameters, and port statistics for your IntraSwitch.

There are sections that describe connecting with your IntraSwitch via the Web, navigating through the IntraSwitch management Web pages, and viewing and modifying the configuration parameters. There is also a section on viewing port statistics.

VLAN Configuration

The "Configuring VLANs" chapter explains how to access a configuration screen for creating custom VLANs made up of the devices connected to your IntraSwitch.

There are sections with procedures for accessing the VLAN configuration menu, and sections that describe the procedures used to add and remove ports from VLANs.

Related Documentation

For more information on the IntraSwitch parameters and features mentioned in this reference guide, see your *IntraSwitch User's Manual.* Additional System requirements are also listed in the *IntraSwitch User's Manual.*

2

Web Browser Management

Overview

The IntraSwitch has a built-in HTTP (HyperText Transfer Protocol) server.

The HTTP server allows you to manage the IntraSwitch via any supported World Wide Web browser (see Table 2-1 for a list of supported platforms and browsers).

Web Browsers Supported

Table 2-1 lists the World Wide Web browsers supported by the IntraSwitch.

Table 2-1 Supported Web Browsers

Platform	World Wide Web Browser
PC (Windows™)	Netscape Navigator® v. 3.0 or greater Netscape Communicator™ v. 4.0 Microsoft Internet Explorer™ v. 3.0 or 4.0
Macintosh®	Netscape Navigator® v. 3.0 or greater Netscape Communicator™ v. 4.04 MIcrosoft Internet Explorer™ v. 3.0 or 4.0

Connecting to the IntraSwitch

To connect to the IntraSwitch with one of the supported Web browsers listed in Table 2-1, the IntraSwitch must be configured with an IP address.

See the "Setting up for Management" chapter in your *IntraSwitch User's Manual* for directions.

To connect to the IntraSwitch with a Web browser:

1. Locate a computer with a functioning World Wide Web browser.
2. Open the Web browser.
3. Type the IP address of the IntraSwitch at the URL prompt, then press **Return.** Use the user name "IntraSwitch" and the password "Asante" if no other ID is established. The Web access password is the same as the console password.

   The IntraSwitch Embedded Network Management Web Server page appears, similar to Figure 2-1.

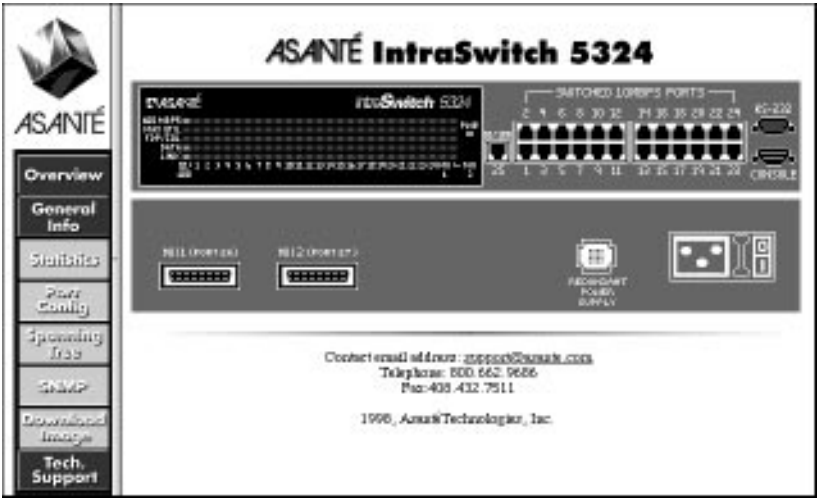

Figure 2-1 IntraSwitch Web Management Page

Management Buttons

Table 2-2 describes the *enabled* management buttons in the frame on left side of the IntraSwitch Web Browser Management Page.

Δ ***Note:*** The grayed out management buttons are currently not active.

Table 2-2 Web Browser Management Buttons

Button	Description
Overview	Opens the IntraSwitch Embedded Network Management Web Server page (as displayed in Figure 2-1). This page allows you to click on the ports and view their configuration parameters and statistics. See "Viewing Port Information" on page 2-7.
General Info	Opens the General Information page. This page allows you to view the following items: software version, administrative information (name, location, and contact person for the switch), address of the switch (MAC, IP, subnet mask, and router), bootstrap information (server IP address, boot filename, boot mode, and load mode), security configuration (MAC ageout time), and password setting fields. See "Viewing General Information" on page 2-4 for details.
Tech. Support	Opens the Tech Support directory page. This page displays the different communication channels you can use to contact the Asanté technical support information database and staff. See Appendix A for details.

Viewing General Information

To view general administration information on the IntraSwitch, use the following procedure. If you want to see information on an individual port, see "Viewing Port Information" on page 2-7.

1 Click once on the **General Info** button in the left frame of the IntraSwitch Embedded Network Management Web Server page.

The top portion of the General Information page is displayed as shown in Figure 2-2.

Figure 2-2 Top of General Information Page

The top frame contains hypertext links to different parameter sections of the General Information page.

2 View the Software Version and Administrative Information sections at the top of the page.

3 Scroll down to view the Switch Address, Bootstrap Information, Security Configuration, and Set Password sections of the General Information page, or click the links for these sections at the top of the page.

See Table 2-3 for a description of each parameter. When a field can be modified, it is noted.

Table 2-3 General Information Parameters

Parameter Option	Description
Software Version	Displays the version number and release date of the Asanté IntraSwitch software.
Switch Name	Displays the name currently assigned to the IntraSwitch. Modifiable field.
Switch Location	Displays the location currently assigned to the IntraSwitch. Modifiable field.
Switch Contact	Displays the name of the person or entity currently responsible for the IntraSwitch. Modifiable field.
MAC Address	Displays the IntraSwitch's Media Access Control or hardware address.
IP Address	Displays the IntraSwitch's IP address. Modifiable field.
Subnet Mask	Displays the IntraSwitch's subnet mask. Modifiable field.
Default Router	Displays the IntraSwitch's default router address. Modifiable field.
(Boot) Server IP Address	Displays the remote boot server's IP address. Modifiable field.
Boot File Name	Displays the image file name and network path. Modifiable field.

Parameter Option	Description
Boot Mode	The boot mode used for downloading a new version of software for the IntraSwitch. Pull-down menu with these choices: **BootP-TFTP —** sets the IntraSwitch to request an IP address from a BootP server and download the image file through TFTP. **TFTP —** sets the IntraSwitch to only download the image file through TFTP (does not request an IP address; the IntraSwitch must already be configured with an IP address to use this option).
Boot Load Mode	Displays the origin of the device boot image file (a software file required by the IntraSwitch to operate on the network). Pull-down menu with these choices: **Local** — indicates the IntraSwitch is set to download the image file from its internal flash memory. **Remote** — indicates the IntraSwitch is set to download the image file from a remote boot server on the network.
Security Configuration	Displays the Ageout time (connect time) for users accessing the MAC address of the IntraSwitch. Modifiable field.
Set Password	Displays fields that allow you to enter a new HTTP password. Modifiable fields.

For further details on these parameters and settings, see the appropriate section of your *IntraSwitch User's Manual*. Each of the parameters and settings can be accessed in your IntraSwitch Local Management Interface, either by means of a local console or a Telnet connection.

Modifying General Info Parameters

Use the following procedure to modify the parameters on the General Information page that have editable text fields or pull-down menus.

1. Scroll to the parameter you want to change, or click the link for it at the top of the General Information page.
2. Edit the text in the text box for the parameter, or choose an option from the pull-down menu.
3. Click **Apply Changes** to activate the modifications you have made. If you decide you do not want to make the changes you have entered, click **Restore.**

Viewing Port Information

To view information about each port on the IntraSwitch, use the following procedure.

1. Click once on the **Overview** button on the IntraSwitch Embedded Network Management Web Server page.
2. Click once on a port to see its statistics.

   The top portion of the Port Configuration page is displayed as shown in Figure 2-3.

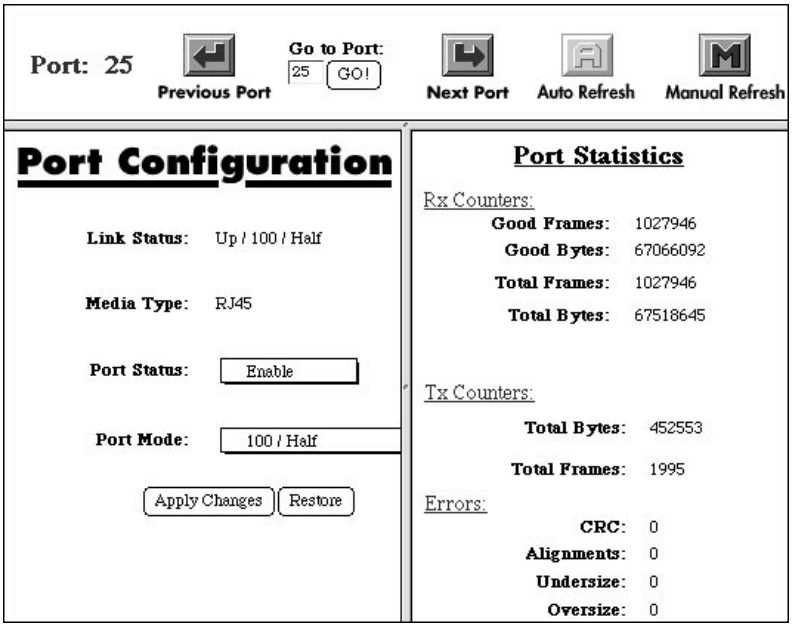

Figure 2-3 Top of Port Configuration page

3 Scroll through the Port Statistics list to view the RX (Receive data) counters, TX (Transmit data) counters, error counters, and frame counters that are shown in the lower portions of the page.

4 To see statistics for other ports on the IntraSwitch, click either the **Previous Port** or **Next Port** button, or enter a number in the **Go to Port** field and click **GO.**

5 To update the statistics, either click **Manual Refresh** or **Auto Refresh.** The automatic update occurs at five second intervals.

Δ ***Note:*** For a description of each counter in the Port Statistics list, see the "Status Monitoring and Statistics" chapter of your *IntraSwitch User's Manual.*

See Table 2-4 for a description of each port configuration parameter.

Table 2-4 Port Configuration Parameters

Parameter Option	Description
Link Status	Displays the link status, port speed, and duplex mode of the port. If the status is **Up,** a network device is properly connected to the selected port and is powered on. If the status is **Down,** a network device is not connected to the selected port. The port speed can be either **10Mbps** or **100Mbps.** The mode can be **Half** duplex (one-way transmission at a time) or **Full** duplex (two-way transmission).
Media Type	Displays the type of connector on the port, either **FL, FX**, or **RJ-45** connector.
Port Status	Allows you to enable or disable the selected port. **Note:** To determine if the port is disabled, check the **Port Connection** status parameter in the Port Configuration menu of a telnet or console session.
Port Mode	Allows you to select a port configuration option from a pull-down menu.

To modify the Port Status or Port Mode parameters, pull down the menu and choose an option. The Disable option for port status can be helpful if you are trying to isolate a problem on one of several devices connected to the different ports of the IntraSwitch. Change the Port Mode to reflect changes of hardware.

Δ ***Note:*** For more information on the port configuration parameters, see "Configuring Port Parameters" in the "Console Management" chapter of your *IntraSwitch User's Manual.*

3

Configuring VLANs

Overview

Your IntraSwitch supports the use of a Virtual LAN on all ports. A Virtual LAN, or VLAN, is a logically separated segment of your LAN, containing a limited number of devices, whose traffic is isolated from that of the rest of the LAN. The "member" devices of each VLAN are defined by port grouping. You can use the Asanté Local Management Interface to set up a Virtual LAN and add ports to it or remove ports from it.

By default, all ports on the IntraSwitch are included in a single VLAN, VLAN 0. In this configuration, there is no separation or organization of devices into groups, so all network traffic runs on all parts of the net.

If you need to separate a group of users who move large files over the net, or a group of users who have special security needs, create a VLAN for them as described in this chapter.

If you need to isolate a group of high-priority users from background network traffic such as that caused by broadcasts or "chatty protocol" overhead traffic, you can create a VLAN for them, also.

Accessing the VLAN Configuration Menu

After you have connected to the IntraSwitch Local Management Interface using either an out-of-band Console or in-band Telnet connection, use the following procedure to access the VLAN configuration menu.

For information on connecting to the IntraSwitch Local Management Interface, see the "Setting Up For Management" chapter in your IntraSwitch User's Manual.

The IntraSwitch 5212 is used as an example in the following procedure, but you can follow the same steps no matter which specific IntraSwitch model you have. The only difference will be the number of ports.

1 In the Main Menu of the IntraSwitch Local Management Interface, type **c** and enter your password at the prompt.

The Configuration Menu is displayed, as shown in Figure 3-1.

```
Configuration Menu

<Cmd>          <Description>
  a       Config System Administration Information
  i       Config TCP/IP Parameters
  b       Config Bootstrap Parameters
  n       Config SNMP Parameters
  p       Config Port Parameters
  m       Config RMON Parameters
  f       Config MAC Forwarding Table Parameters
  s       Config Spanning Tree Parameters
  v       Config VLAN
  t       Set Telnet Idle Time-out
  c       Set Console Password
  e       Reset EEPROM To Default
  q       Exit Configuration Menu

Command>
```

Figure 3-1 Configuration menu for Local Management Interface

2 Type **v** to choose the **Config VLAN** option.

The VLAN configuration menu is displayed, as shown in Figure 3-2.

```
 VLAN Menu

VLAN 0 :  1 2 3 4 7 10 12 13 14
VLAN 1 :  8 9
VLAN 2 :  5 6
VLAN 3 :  11
Note: Port 14 is permanently assigned to VLAN 0
<Cmd>          <Description>
  m       Move port to different VLAN group
  q       Return to Previous Menu

Command> m
```

Figure 3-2 VLAN configuration menu for IntraSwitch 5212

3 View the current configuration of VLANs. In the sample configuration of an IntraSwitch 5212 shown in Figure 3-2, there are 3 assigned VLANs. VLAN 1 has port 8 and port 9 assigned to it; VLAN 2 has port 5 and port 6, and VLAN 3 has port 11 assigned to it.

Δ ***Note:*** All ports are in VLAN 0 by default. You create custom VLANS by moving these ports to VLANs 1, 2, and 3.

Moving Ports to Create or Modify VLANs

Use the following procedure to create custom VLANs to meet the needs of your site.

1 Access the VLAN configuration menu as described in the previous section.

2 Type **m** to display the VLAN and port specification prompts, as shown in Figure 3-3.

```
 VLAN Menu

VLAN 0 :  1 2 3 4 7 10 12 13 14
VLAN 1 :  8 9
VLAN 2 :  5 6
VLAN 3 :  11
Note: Port 14 is permanently assigned to VLAN 0
<Cmd>          <Description>
  m       Move port to different VLAN group
  q       Return to Previous Menu

Command>
Which VLAN ? (0 - 3):
1
Which Port ? (1 - 13):
3
```

Figure 3-3 VLAN and port specification

3 In response to the **Which VLAN?** prompt, type the number of the VLAN to which you want to move a port. You can type any number from 0 to 3.

In the illustrated sample, VLAN 1 is specified. When you press **Return,** the second prompt appears.

4 In response to the **Which Port?** prompt, type the number of the port you want to add to the specified VLAN. You can type the number of any IntraSwitch port.

In the illustrated sample, port 3 is specified. Keep in mind that one port on your IntraSwitch is assigned permanently to VLAN 0. In the illustrated sample, an IntraSwitch 5212, the permanently assigned port is port 14.

When you press **Return,** the VLAN menu is displayed as in Figure 3-4. The newly moved port (3, in the sample) in the specified VLAN (1, in the sample).

```
 VLAN Menu

VLAN 0 :  1 2 4 7 10 12 13 14
VLAN 1 :  3 8 9
VLAN 2 :  5 6
VLAN 3 :  11
Note: Port 14 is permanently assigned to VLAN 0
<Cmd>          <Description>
  m       Move port to different VLAN group
  q       Return to Previous Menu

Command>
```

Figure 3-4 Updated VLAN configuration

5 Repeat steps 2 through 4 of this procedure to move other ports to create the custom VLANs you want.

A

Technical Support

Contacting Asanté Technical Support

To contact Asanté Technical Support:

Telephone	(800) 622-7464
Fax	(801) 566-3787
Internet Mail	support@asante.com
World Wide Web	www.asante.com
Bulletin Board Service (BBS)	(408) 432-1416
FTP Archive	ftp.asante.com

Technical Support Hours

6:00 A.M. to 5:00 P.M. Pacific Standard Time USA, Monday – Friday.

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